

# Microsoft SQL Server Monitoring and Performance Tuning

Course code: GOC630

The course is designed for database professionals who have experience with the management or development of a database system and want to be able to effectively monitor and tune the performance of the database system.

Affiliate	Duration	Course price	ITB
Praha	4	20 800 Kč	40
Brno	4	20 800 Kč	40
Bratislava	4	900 €	40

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
G 16.09.2024	4	20 800 Kč	Presence	CZ/SK	GOPAS Praha
14.10.2024	4	900 €	Presence	CZ/SK	GOPAS Bratislava prezenčne
02.12.2024	4	20 800 Kč	Presence	CZ/SK	GOPAS Brno
10.12.2024	4	900 €	Online	CZ/SK	GOPAS Bratislava online
10.12.2024	4	20 800 Kč	Online	CZ/SK	GOPAS Praha online
20.01.2025	4	20 800 Kč	Presence	CZ/SK	GOPAS Praha
11.03.2025	4	20 800 Kč	Presence	CZ/SK	GOPAS Brno
22.04.2025	4	20 800 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

## Who is the course for

The course is designed for database professionals who have experience with the management or development of a database system and want to be able to effectively monitor and tune the performance of the database system.

## What we teach you

- We will introduce you into the SQL Server sources and how they are used
- Methods for SQL Server monitoring
- Evaluation of measured values and identification of the problem
- Recommended configurations and solving methods

## Required skills

- Basic knowledge of Microsoft Windows operating systems
- The ability to understand and work with T-SQL at the level of the MOC 2778 or GOC277 course
- Knowledge in the field of database administration at the level of the course MOC 6231

## Course outline

### Basic SQL Server sources and the work with them

- SQL Server Architecture
- Memory Usage
- Working with the repository
- CPU and queries execution
- Object Lock and Latches
- Tempdb System Database

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# Microsoft SQL Server Monitoring and Performance Tuning

## Methods for Monitoring SQL Server

- Performance Monitoring
- SQL Profiler
- Dynamic Management Views
- Evaluation of measured values and identification of the problem
- Activity monitoring
- Data Collector
- SQLDiag
- Extended Events
- SQLIO

## Evaluation of measured values and identification of the problem

- Information about performance counters and their characteristics
- Recommended counters ' values
- Identifying of possible bottlenecks and problems

## Recommended configurations and methods of solution

- SQL Server configuration and recommended procedures
- Database configuration and recommended procedures
- Identification of possible bottlenecks and problems

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